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Subject: Fw: Air Data Summary - June 4 2010 - BP Oil Spill
Date: 06/05/2010 11:34 AM
Attachments: 060410_AQAD_Report.docx
Deepwater Horizon REOC Situation Report_38.pdf
Daily Summary MC 252 Oil Spill 2010_06_04.pdf

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----- Forwarded by Paige Delgado/R6/USEPA/US on 06/05/2010 11:34 AM -----

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Date: 06/05/2010 11:25 AM

Subject: Air Data Summary - June 4 2010 - BP Oil Spill

This is a summary of air data collected on June 4, 2010 by the LDEQ, USEPA and CTEH (BP's Contractor) related to the BP Oil Spill. Detailed reports are attached.

LDEQ

LDEQ has 4 TNMOC (hydrocarbon) analyzers in the New Orleans area; these analyzers are components of the ambient air monitoring sites at Chalmette Vista, Chalmette High, Meraux and Kenner. Other pollutants monitored in the area network include H2S, SO2, PM2.5 and ozone.

Summary of air data collected on June 4, 2010

All of the TNMOC analyzers in the New Orleans area were in the normal range. H2S levels were very low. Particulate levels (PM 2.5) were in the good range. Ozone levels were in the good range.

The Chalmette Vista site had elevated SO2 levels.

TIME	PPB
8:00	102
11:00	123
17:00	140

18:00 230
19:00 163
20:00 171
21:00 210

The wind was out of the south. Based on wind direction, it is likely that the elevated SO2 readings are coming from either Rain CII Carbon or Chalmette Refinery. Historically LDEQ has seen elevated readings that were attributable to these two facilities. The SO2 readings were below the NAAQS. The primary NAAQS for SO2 is 140 ppb for 24 hours. The secondary NAAQS for SO2 is 500 ppb for 3 hours.

AQI Forecast for June 5, 2010
Today, mostly cloudy skies and scattered thunderstorms will continue to limit ozone production in the southeastern portion of the state. However, increasing sunshine and temperatures in the low-90s will support ozone production in western and central Louisiana, leading to Moderate AQI levels in Shreveport, Lake Charles, and Monroe.

USEPA

The USEPA has 8 air monitoring and sampling locations:

o 3 in Plaquemines Parish monitoring for VOCs, particulates and H2S (Venice Operations);

o 3 in St. Bernard Parish monitoring for VOCs and particulates (Chalmette Operations);

o 2 in Grand Isle/Port Fourchon monitoring for VOCs (Grand Isle Operations).

* Air monitoring exceedences of the VOC action level were noted for Location V03 at 1500 hours and for Location V05 for 1600 hours. The exceedences were caused by instrument failure due to rain events.
* Data gaps were noted for Location C04 from 0900 hours to 1200 hours for oxygen and VOCs. Data gaps were also noted for Locations C05 from 0900 hours to 1000 hours for oxygen and VOCs. The cause of the data gaps is currently under review.

CTEH

CTEH conducts daily air monitoring between Port Authur, TX and Apalachee Bay, FL. They monitor for VOCs, H2S, SO2, Benzene, PM10, PM2.5 and odors.

* Air monitoring results show that crude oil vapors were not detected throughout residential and commercial areas between Port Arthur, TX and Apalachee Bay.
*
Several VOC detections were noted in Alabama and Mississippi. No source of the readings were found and no odor was noted at the time of the reading. None of these detects are considered to be related to crude oil or associated with the spill response activities.
*
Testing teams trained in odor detection also noted the presence or absence of crude oil vapors. Crude oil odors were detected in several locations in Louisiana near where oil has been sighted.